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THE EFFECTS OF AIR STRIKES ON MILITARY ABILITY AND PROBLEMS OF THE DRV IN REPLACEMENT

Assessment of effects of US air strikes on DRV military installation systems during September 1965.

| 1. (| (s) | Naval Bases | : |
|------|-----|-------------|---|
| | | | |

| я. | Traco | กลซลไ | bases | have | been | struck: |
|----|-------|-------|-------|------|------|---------|
| | | | | | | |

(1) Phuc Loi Naval Base - Last hit on

12 September. Seventy-eight per cent of base is destroyed. Some repair activity has been noted on recent photography.

(2) Quang Khe Naval Base _____ - Last hit on 20 September. Cumulative damage to this installation is 68 per cent destroyed. Repairs to the T-head pier and marine railway have been noted.

b. Assessment:

It is estimated that these installations can still provide service and support for NVN naval units, however, at a reduced level.

2. (S) Supply Depots:

a. Present levels of destruction at targeted supply depots hit to date are as follows:

| | Name | Last Hit | Pre-Strike Capacity (Sq Ft) | Remaining Capacity (Per Cent) | Present Capacity (Sq Ft) |
|-----|-------------------------------|----------|-----------------------------|-------------------------------|--------------------------|
| | La Bks, Hqs M Supply Depot | R 11 Aug | 295,000 | 64 | 188,800 |
| | | 25X1 | | | |
| · , | Con Army Bks & Oly Area | 23 May | 7,200 | 16 | 1,200 |
| | | 25X1 | | | |

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| Neme | <u>Last Hit</u> | Pre-Strike Capacity (Sq Ft) | Remaining Capacity (Per Cent) | Present Capacity (Sq Ft) |
|---|-----------------|-----------------------------|-------------------------------|--------------------------------|
| (3) Phu Le Army Bks & Supply Depot | 21 May | 44,800 | 86 | 40,500 |
| (4) Mu Gia Pass Army & Staging Area | | 80,000 | 15 | 12,000 |
| (5) Ha Tinh Army Bks & Supply Depot | 6 Sep | 47,000 | 17 | 8,000 |
| (6) Xom Trung Hoa Army Bks & Supply Depot NW | 8 May | 93,000 | 29 | 27,000 |
| (7) Yen Bay Ord Depot | 17 Jul | 330,000 | <u></u> 45 | 148,000 |
| (8) Vinh, Hqs MR IV, Army Bks & Supply Depot E | 21 Sep | 215,300 | 72 | 154,800 |
| (9) Phu Van Supply Depot | 26 May | 58 , 500 | 14 | 8,200 |
| (10) Thien Linh Dong Whse Area | 13 Jun | 163,300 | 42 | 68,600 |
| (11) Vinh Son Supply Depot | 23 Jun | 151,200 | ' 86 | 130,000 |
| (12) Phu Qui Army Bks & Supply Depot | 22 Jun | 289,700 | 38 | 110,000 |
| (13) Thuan Chau Bks & Supply Depot | 16 Aug | 217,000 | 61 | 132,400 |
| (14) Vinh Loc Storage Area S | 20 Aug | 49,000 | 21 | 10,300 |
| | | | | |

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| <u>Name</u> | <u> Last Hit</u> | Pre-Strike Capacity (Sq Ft) | Remaining Capacity (Per Cent) | Present Capacity (Sq Ft) |
|--------------------------------|------------------|-----------------------------|-------------------------------------|--------------------------------|
| (15) Phu Duc Whse Area | 27 Aug | 28,100 | Deleted fro | om. |
| (16) Dong Thanh Whse Area S | 22 Jun | 71,500 | 46 | 32,900 |
| (17) Dong Thanh Whse Area W | 18 Aug | 54,000 | 62 | 33,500 |
| b. Assessment: | | | | |

(1) It is possible that limited operations could be resumed however, extensive

repair and new construction would be required for the remaining depots. There is no evidence that restoration is being attempted.

(2) Damage levels are not believed to have reached the point where serious nation-wide equipment and supply shortages exist; however, the strikes are causing temporary shortages in some areas and is having an increasingly disruptive effect on the over-all supply system. It is likely that supplies have been dispersed to smaller, less conspicuous locations in wooded areas, caves or possibly in civilian buildings.

3. (S) Ammunition Depots:

a. Ammunition depots hit to date:

| Name | Last Hit | Pre-Strike Capacity (Est) | Remaining Capacity (Per Cent) | Present Capacity (Est) |
|--------------------------------------|----------|---------------------------|-------------------------------|------------------------|
| (1) Xom Trung Hoa Bks & Ammo Storage | 29 Aug | 3,700 MT | 76 ⁻ | 2,800 MT |

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| | Name | Last Hit | Pre-Strike Capacity (Est) | Remaining Capacity (Per Cent) | Present Capacity (Est) |
|------|------------------------------|----------|---------------------------|-------------------------------|------------------------|
| (2) | Phu Qui Ammo Depot | 4 Jun | 9,000 MT | 46 | 4,100 MT |
| (3) | Phu Van Ammo Depot | 16 Jul | 3,800 | 46 | 1,700 |
| (4) | Qui Hau Ammo Depot | 8 Jul | 11,500 | 68 | 7,800 |
| (5) | Ban Phieng Hav Ammo Depot | 25 Jun | 1,500 | 57 | 800 |
| (6) | Yen Son Ord & Ammo Depot | 26 Sep | 10,000 | 42 | 4,200 |
| (7) | Hoai An Ammo Depot | l Jun | 8,200 | 42 | 3,500 |
| (8) | Tai Xouan Ammo Depot | 26 Sep | 7,700 | 97 (24 July) | 7,500 |
| (9) | Xom Rung Ammo Depot | 3l Jul | 4,100 | 87 | ·3,600 |
| (10) | Ban Nuoc Chieu Ammo Depot | 18 Sep | 11,900 | . 52 | 6,200 |
| (11) | Xom Bang Ammo Depot | 2 Mar | 5,000 | 25 | 1,250 |
| (12) | Bac Kan Ammo Depot | 15 Sep | 2,000 | 36 | 700 |
| | b. Assessment: | | | | |

⁽¹⁾ No effort to restore or repair the above depots has been noted to date. Many appear run-down and show little sign of use. Secondary explosions have been confirmed at only three of the depots. In view of the above, it is likely that NVN ammunition

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stores have been dispersed to avoid the effects of the bombings. Well camouflaged areas and caves would be the most likely new locations.

(2) It does not appear that an ammunition shortage exists in the DRV to date; however, deliveries are probably being delayed.

4. (S) POL Storage:

a. There was one restrike against a POL target during September.

b. Assessment:

Attacks on POL facilities to date have reduced national capacity for POL storage by nearly 20 per cent, leaving about 155,000 tons of storage capacity still available for use.

5. (S) Barracks:

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a. Barracks hit to date:

| | Name | Last Hit | Est Pre- Strike Capacity (men) | Bks Cap Remaining | Present Capacity (men) | % of Total Floor Space Plan Destroyed |
|-----|--|--------------|---|----------------------|------------------------|--|
| (1) | Chanh Hoa Bks | ll Feb | 400 | 45% | 180 | 55 |
| (2) | Son La Bks, Hqs MR NW & Supply Depot | ll`Aug | 9,000 | 50% ' | 4,500 | 44 |
| (3) | Dien Bien Phu A Bks <u>& Hqs 316th</u> Bde | 18 Aug | 10,000 | 80% | 8,000 | 52 |
| (4) | Bien Xom Lom Bks & Hqs | 21 Jul | 10,000 | 64% | 6,400 | • 34 |
| (5) | Quang Suoi Army Bks NE | _30 Jul] | 2,250 | 68% | 1,530 | 50 |

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| | • | | Est Pre- | | | % of Total |
|------|-----------------------------------|----------|-----------------------------|----------------------|------------------------|----------------------------------|
| | Name | Last Hit | Strike Capacity (men) | Bks Cap Remaining | Present Capacity (men) | Floor Space Plan Destroyed |
| (6) | Vu Con A Bks & Supply Depot | 23 May | 500 | 29% | 150 | 83 |
| (7) | Dong Hoi A Bks | 27 Jul | 5,000 | 24% | 1,200 | 65 |
| (8) | Vit Thu Lu A Bks | 31 May | Deleted fr | om Tgt List | | |
| (9) | Moc Chau A Bks | 23 Jun | 750 | 74% | 550 | 3 ¹ 4 |
| (10) | Vinh Army Bks Cent, NE | 5 Aug | Deleted fr | om Tgt List | | |
| (11) | Chap Le A Bks | 10 Jun | 1,200 | 64% | 770 | 34 |
| (12) | Ben Quang A Bks SW | 5 Jul | 2,100 | 34% | 710 | 69 |
| (13) | Hoan Lao A Bks S | 24 Sep | 2,500 | 26% (22 Sep) | 650 | 67 |
| (14) | Dong Hoi A Bks- Citadel | 9 Aug | 2,800 | 23% ' | 640 | 81 |
| (15) | Phu Le Army Bks & Supply Depot | 21 May | 1,200 | 52% | 620 | 34 |
| (16) | Ba Don Army Bks | 17 Jun | 670 | 70% | 470 | 30 |
| (17) | Hou Luat Nam A Bks | 29 Jun | Deleted fro | om Tgt List | | |

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|----------------|----------------------------|----------|---|----------------------|------------------------|--|
| | <u>Name</u> | Last Hit | Est Pre- Strike Capacity (men) | Bks Cap Remaining | Present Capacity (men) | % of Total Floor Space Plan Destroyed |
| (18) | Don Bai Dinh Mil Camp | l4 Apr | 400 | 52% | 210 | 71 |
| (19) | Muong Sen Mil Inst | 12 Jun | 400 | 28% | 110 . | 72 |
| (20) | Vinh Linh A Bks Cent NE | 27 Sep | 1,350 | 61% | 820 | 45 |
| (21) | Yen Phu Army Bks NE | 7 Sep | 4,500 | 50% | 2,250 | 47 |
| (22) | Thanh Hoa Army Bks S | 21 Aug | 1,200 | 78% _. | 940 | 38 |
| (23) | Thanh Hoa Bks SSE | 15 Jun | 1,200 | 34% | 410 . | 71 |
| (24) | Sam Son Army Bks W | l6 Jun | 1,100 | 78% | 860 | 18 |
| (25) | Vinh Son Army Bks S | 19 Jul | 3,500 | 48% | 1,680 | 56 |
| (26) | Dong Cau Than A Bks | 22 Jul | 5,500 | 35% | 1,930 | 65 |
| ۱ (27) ا | Vinh Army Bks NNE | 5 Aug | 2,500 | 57% | 1,430 | 39 |
| (28) | Bai Thuong Army Bks NE | 22 Aug | 2,500 | 47% | 1,180 | 46 |
| | | | | | | |

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| | | | Est Pre- | | | % of Total |
|------|---|----------|-----------------------|----------------------|------------------------|----------------------------------|
| | Name | Last Hit | Strike Capacity (men) | Bks Cap Remaining | Present Capacity (men) | Floor Space Plan Destroyed |
| (29) | Mu Gia Pass Army Sup & Staging Area | | 620 | 26% | 160 | 62 |
| (30) | Xom Trung Hoa Bks & Ammo Storage | 29 Aug | 1,200 | 69% | 830 | 28 |
| (31) | Xom Bang Army Bks E | 13 Sep | 850 | 3% | 30 | 86 |
| (32) | Ha Tinh Army Bks & Sup Depot | 6 Sep | 880 | 69% | 610 | 48 |
| (33) | Co Dinh Army Bks | 16 Sep | 890 | 4% | 36 | 98 |
| (34) | Vinh Army Bks NW | 16 Sep | 4,000 | 47% | 1,880 | 45 |
| (35) | Quan Lan Army Bks | 25 May | Deleted f | rom Tgt List | | |
| (36) | Xom Trung Hoa Army Bks & Sup Depot SW | 8 May | 1,350 | 34% | 460 | 70 |
| (37) | Vinh Linh Army Bks SW | 10 Sep | 700 | 6% | 20 | 83 |
| (38) | Vinh Linh Army Bks E. Linh Cong | 22 Aug | 1,000 | 10% | 100 | 91 |
| (39) | Vinh Linh Army Bks NW Xom Cho | 5 Jul | 1,200 | 13% | 160 | 43 |

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| | | | | | • | % of Total |
|--------------|---|----------|---|----------------------|------------------------|----------------------------------|
| | Name | Last Hit | Est Pre- Strike Capacity (men) | Bks Cap Remaining | Present Capacity (men) | Floor Space Plan Destroyed |
| (40) | Xom Y Lenh Army Bks | 17 Jun | Deleted fr | om Tgt List | | |
| (41) | Yen Khoai Army Bks & Ammo Depot | 15 Sep | 2,500 | 50% | 1,250 | 41 |
| (42) | Vinh, Hqs MR IV, Army Bks & Sup Depot E | 21 Sep | 5,000 | 57% | 2,850 | 34 |
| (43) | Phu Qui Army Bks & Supply Depot | 22 Jun | 3,000 | 53% | 1,590 | 55 |
| (44) | Xom Chang Army Bks S | 30 Sep | 550 | 73% (24 Sep) | 400 . | . 39 |
| (45) | Thuen Chau Bks & Supply Depot | 16 Aug | 3,000 | 48% | 1,440 | 39 |
| | b. Assessment: | • | , | • | | |

Although damage to these installations has been extensive in some instances, loss of barracks and support buildings in themselves, does not pose a major problem for the DRV. Adequate civilian structures are available for billeting troops and storing military supplies. The advantage to be derived, if any, from these strikes would seem to be psychological, that is, damage to morale

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and corresponding effect on the will to fight. There is little evidence of any effort being exerted to rebuild or repair damaged facilities. In many cases, damaged buildings have been dismantled.

6. (S) Airfields:

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a. Airfields attacked to date:

| Name | Last Hit | Results |
|----------------------------|----------|---|
| (1) Na San Airfield | 22 Sep | 19% of building destroyed - 10 craters in runway as of 25 June. |
| (2) Dien Bien Phu Airfield | 8 Jul | 72% of building destroyed - 15 craters in runway. |
| (3) Dong Hoi Airfield | 23 Sep | 30% of building destroyed - 14 craters in runway. |
| (4) Vinh Airfield | l Jul | 10% of building destroyed - 14 craters in runway. Some repair activity noted. |

b. Assessment:

The airfields at Vinh, Dong Hoi, Na San and Dien Bien Phu are not serviceable. The reactivation of two airfields (Bac Kan and Lang Son) in the northern portion of the DRV, coupled with a revetment and airfield improvement program, has given the DRV more flexibility in dispersing their aircraft. On 18 September, eight MIG aircraft were deployed to Kep Airfield. The current number of airfields being utilized by all types of aircraft is nine. (Bac Mai, Gia Lam, Lang Son, Phuc Yen, Kep, Kep Ha, Cat Bi, Kien An and Bac Kan).

7. (S/NFD) DRV Radar System:

a. Air strikes during September have had little or no effect on

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the DRV radar system. two of five radars not operational during July returned to probable operational status during late August.

b. Assessment:

With the diversity of radars and the addition of new equipment, the loss of three sites has probably not hampered the early warning capabilities of the DRV Air Defense System. Active electronic countermeasures (ECM) operations against early warning and fire control radars in conjunction with armed reconnaissance and strike operations has been effective. Continuous wave (CW) and noise spot jamming has appeared effective against the FIRE CAN fire control radar. Early warning radars were also effectively jammed; however, in some cases tracking of strike aircraft was probably intermittently maintained.

8. (S) Armed Reconnaissance:

a. As of 30 September, 9,227 armed reconnaissance sorties have been flown.

| | Results | | |
|------------|-----------|---------|--|
| <u>Tgt</u> | Destroyed | Damaged | |
| Vessels | 316 | 566 | |
| Vehicles | 359 | 366 | |
| RR Stock | 156 | 431 | |

b. Assessment:

No assessment of equipment losses can be made other than that shown in 8.a. above. The loss of major items of equipment poses

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problems for the DRV, since it depends almost exclusively upon aid from the other Communist Bloc countries. Additional aid has been promised and evidence indicates that it is presently arriving in country in significant quantities.

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9. (S) Surface LOC Targets:

| a. Rail and Highway. Four railroad/highw | ay | | | |
|--|--------------------------|----|--|--|
| and two railroad | bridges located 25 | X1 | | |
| north of Vinh have been extensively damaged. T | his probably has | | | |
| caused delay in the delivery of military supplies to Vinh and | | | | |
| certainly has placed an additional burden on the transportation | | | | |
| system. It is estimated that the loss of these bridges will have a | | | | |
| serious over-all effect on the military capabil | ities of the DRV south | | | |
| of Hanoi. One railroad bridge loca | ted south of Vinh has 25 | X1 | | |
| been damaged extensively. This bridge is on a section of the in- | | | | |
| operable Vinh-Dong Hoi rail line. Several bridges along this | | | | |
| section of the line have been used as highway crossings. | | | | |

Air strikes on the Hanoi-Lao Cai and on the Hanoi-Dong Dang rail lines have disrupted rail traffic between China and North Vietnam and China to China traffic via Hanoi. The most significant interdiction of the Hanoi-Lao Cai line has been the Lang Bun rail-road bridge destroyed by RT 28. Other bridges have been damaged or destroyed between Lang Bun and Yen Bai. Three of these bridges have been repaired. Reconstruction of the Yen Bai Railroad Yard has continued and traffic through the yard is now

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possible. All other damage on this line is north of this rail yard. A major and successful strike on the Cao Nung Railroad Bridge over the Song Hoa on 20 September 1965 has disrupted rail traffic on the Hanoi-Dong Dang rail line. At present there is through rail traffic only on the Hanoi-Haiphong and Hanoi-Thai Nguyen rail lines.

Air strikes in September destroyed or severely damaged 28 additional highway bridges. Numerous restrikes were conducted against previously damaged or repaired structures. Nearly one-half of the new bridge interdictions were accomplished on Route 1A south of the 20th parallel. The remaining bridge cuts were spread from Route 6 in the northwest above the 21st parallel to Route 101 near the DMZ. To date most extensive strike damage has been effected on the following NVN routes in order of intensity: 1A, 7, 101, 15, 6, 8, 44A, 151, 19.

Over 100 highway bridges have now been interdicted. Approximately 80 of these have been reported to have alternate crossing means or restoration in progress. Of the 80, some 40 of the crossings have fords or ferry facilities. At the remaining crossings, bridge restoration, causeway construction, or realinement of roads over existing nearby serviceable bypass bridges has been attempted.

Present construction force assets cannot cope with

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permanent restoration of this magnitude. Photography reveals that only expedient methods resulting in lower capacity are being undertaken. The import of ponton equipment may alleviate some of the problems in countering LOC interdiction.

Air recommaissance has verified continued, though lower, use of trucks on critical portions of the LOC system. Truck sightings during the past month totalled approximately 210, down significantly from the previous six month average of 300 sightings. Route 15 remains the most heavily traveled, with Route 1A close behind. This traffic has been facilitated by a considerable amount of road repair and bypass construction around interdicted bridges. New truck sightings have been made on Route 124 which can be used as a bypass route skirting the major bridge interdiction on Route 1A at Ninh Binh and on Route 153.

b. Maritime Ports. During the month strikes were conducted against Quang Khe Port facilities on 15 and 20 September, against Ben Thuy Port facilities on 23 September, and against Hai Yen Port facilities on 1, 3, 5, 6, and 7 September.

Quang Khe Port facilities have sustained considerable damage (present count is 18 buildings destroyed, 3 severely damaged, 8 moderately damaged, and 12 superficially damaged). Its capability as a cargo discharge point remains intact, however, since both the T-head pier and the twin breasting platforms are serviceable. Ben Thuy Port facilities and Hai Yen Port facilities have sustained

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considerable damage but the pier at Hai Yen remains usable.

A pilot debrief of a 28 August night mission over Ben Thuy reported lights in the port area and heavy river traffic from the port to the coast. Examination of several photo missions reveal numerous barges tied up at various places in the river during daylight with little sign of activity. This suggests the possibility of cargo transfer operations being conducted under cover of darkness -- probably across unprepared river banks.

In summary, port facilities in the southern DRV, with the exception of Ben Thuy, remain capable of discharging cargo from coastal ships or barges. But the facilities themselves are not essential to the landing of cargo. Barges and other such small craft can be unloaded without the aid of prepared piers or quays.

| c. Inland Waterways. Two navigation lock facilities were | |
|---|------|
| damaged during September. Both locks, | 25X1 |
| located on the Song Chu Canal are adjacent to small dams; significant | |
| damage included a breach of the canal embankment near | 25X1 |
| However, the LOC capability of the canal, reduced by 50 per cent | |
| with the destruction of lock in August, was not | 25X1 |
| significantly affected by the September strikes. Mid-September | |
| photography showed that reconstruction ofwas under way: | 25X1 |
| the dam facility had been repaired to the point of water flowing | |
| through the structure, and breaches of the canal embankment had | |

been repaired. The area of the destroyed lock was being prepared

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| for reconstruction of the l | ock facility. | Vinh Son Dam | on the Song | | | |
|--|-----------------|---------------|--------------|--|--|--|
| Ca, (previously targeted as | | | deleted from | | | |
| the JCS list) was also damaged in late August, but with no | | | | | | |
| ignificant reduction in th | e LOC capabilit | ty of the Son | g Ca. | | | |

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Armed reconnaissance against waterway craft resulted in 93 barges, 36 lighters, 6 junks, and 8 ferries being sunk or damaged. The total number of waterway craft sunk or damaged during September was 143, well below the August total. The cumulative total of craft sunk or damaged to date is 906. The absence of craft concentrations in and near vital port facilities indicates only limited daytime usage or possible night usage of the waterways. Complications arising from forced craft dispersal and concealment are estimated to have materially reduced both military and non-military logistical movement on the waterway system.

10. (S) Explosive Plant:

The Lang Chi Explosives Plant was attacked on 24 July and again on 7 and 8 August. Post strike photography revealed that the plant suffered extensive damage and is now non-operational. Analysis of photography also confirmed the estimate that the plant produced only low order or commercial explosives and its damage will have a negligible impact on military capabilities.

il. (S) General Assessment:

a. The capability of the DRV armed forces to perform its missions of (1) defending the homeland, (2) training its own forces

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and infiltration forces for South Vietnam and Laos, and (3) logistically supporting its own and the Communist forces in South Vietnam and Laos, while hampered, has not been significantly reduced. The PAVN capability to launch a major invasion of the Republic of Vietnam, however, has been substantially curtailed when compared to the period prior to initiation of the US/RVN air strikes.

b. It appears likely that ammunition stocks and some general supply items have been removed from depot areas and are located in smaller, easily camouflaged or disguised areas such as caves, heavily wooded areas and possibly in civilian type buildings. It seems unlikely under present circumstances that troops would make any extensive use of the barracks, but would most likely be bivouacked in wooded areas or in villages or towns. In many instances, military facilities appeared active until significant damage had been inflicted, then abandoned. In other cases, particularly the ammunition depots, abandonment apparently had occurred prior to the first strike.